

| Ref # | Hits | Search Query  | DBs                       | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---------------------------|------------------|---------|------------------|
| S1    | 301  | 29/603.03,603.06,603.07.ccls.   | USPAT;<br>JPO;<br>DERWENT | OR               | ON      | 2005/06/06 13:51 |
| S2    | 28   | (actuator adj arm) and (suspension adj arm) and swage   | USPAT;<br>JPO;<br>DERWENT | OR               | ON      | 2003/05/13 10:06 |
| S3    | 2    | 29/603.03,603.06,603.07.ccls. and ((actuator adj arm) and (suspension adj arm) and swage)   | USPAT;<br>JPO;<br>DERWENT | OR               | ON      | 2003/05/10 11:59 |
| S4    | 18   | ("4796122"   "4943875"   "4947275"   "4991045"   "5185683"   "5198945"   "5296984"   "5313355"   "5323284"   "5355267"   "5390060"   "5428489"   "5461525"   "5495375"   "5497282"   "5579190"   "5631789"   "5657531").PN.                         | USPAT                     | OR               | ON      | 2003/05/10 12:01 |
| S5    | 17   | ("4544972"   "4754353"   "4807054"   "4829395"   "4870525"   "4912583"   "4985652"   "4991045"   "5027242"   "5109310"   "5153794"   "5172286"   "5184265"   "5189577"   "5191705"   "5214552"   "5283704").PN.                                     | USPAT                     | OR               | ON      | 2003/05/10 12:04 |
| S6    | 9    | "5191705".URPN.   | USPAT                     | OR               | ON      | 2003/05/10 12:04 |
| S7    | 9    | "5191705".URPN.   | USPAT                     | OR               | ON      | 2003/05/10 12:06 |
| S8    | 40   | "5172286".URPN.   | USPAT                     | OR               | ON      | 2003/05/10 12:07 |
| S9    | 11   | ("5172286"   "5185683"   "5313355"   "5748409"   "5815348"   "6038103"   "6052260"   "6160684"   "6175474"   "6215624"   "6230959").PN.   | USPAT                     | OR               | ON      | 2003/05/10 12:07 |
| S10   | 20   | ("4829395"   "5172286"   "5225949"   "5299081"   "5461524"   "5508860"   "5535074"   "5543982"   "5646802"   "5717549"   "5748409"   "5796555"   "5833777"   "5877919"   "5912788"   "5948997"   "5973885"   "6063508"   "6128164"   "6141868").PN. | USPAT                     | OR               | ON      | 2003/05/10 12:07 |
| S11   | 12   | (US-6183841-\$ or US-6353994-\$ or US-5796555-\$ or US-6230959-\$ or US-5812343-\$ or US-5854721-\$ or US-5579190-\$ or US-6061896-\$ or US-5185683-\$ or US-5495375-\$ or US-6442001-\$ or US-5191705-\$). did.                                    | USPAT                     | OR               | OFF     | 2003/05/10 12:09 |

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| S12 | 0    | ((US-6183841-\$ or US-6353994-\$ or US-5796555-\$ or US-6230959-\$ or US-5812343-\$ or US-5854721-\$ or US-5579190-\$ or US-6061896-\$ or US-5185683-\$ or US-5495375-\$ or US-6442001-\$ or US-5191705-\$). did.) and lubricat\$3 | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:10 |
| S13 | 0    | ((US-6183841-\$ or US-6353994-\$ or US-5796555-\$ or US-6230959-\$ or US-5812343-\$ or US-5854721-\$ or US-5579190-\$ or US-6061896-\$ or US-5185683-\$ or US-5495375-\$ or US-6442001-\$ or US-5191705-\$). did.) and lubrica\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:11 |
| S14 | 8    | ((actuator adj arm) and (suspension adj arm) and swage) and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/13 13:15 |
| S15 | 3    | ("3831265"   "5100714"   "5229899").PN.  | USPAT                     | OR | ON | 2003/05/10 12:14 |
| S16 | 3    | swage same (lubrica\$4 and immers\$3)  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:17 |
| S17 | 0    | swage same (lubrica\$4 and vacuum)   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:17 |
| S18 | 52   | swage and (lubrica\$4 and vacuum)  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:17 |
| S19 | 9    | swage and (lubrica\$4 same vacuum)   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:18 |
| S20 | 0    | swage and (lubrica\$4 same (vacuum adj deposition))  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:18 |
| S21 | 1300 | (lubrica\$4 and (vacuum adj deposition))   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:19 |
| S22 | 0    | 29/603.03,603.06,603.07.ccls. and ((lubrica\$4 same (vacuum adj deposition)))  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:19 |
| S23 | 0    | ((actuator adj arm) and (suspension adj arm) and swage) and ((lubrica\$4 same (vacuum adj deposition)))  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:19 |
| S24 | 16   | ((lubrica\$4 same (vacuum adj deposition))) and (disk adj drive)   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/10 12:23 |
| S25 | 5    | ((((lubrica\$4 same (vacuum adj deposition))) and (disk adj drive)) and spray\$3   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2003/05/13 13:21 |

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| S26 | 16  | (US-5364690-\$ or US-6035681-\$ or US-5191705-\$ or US-5185683-\$ or US-5495375-\$ or US-5579190-\$ or US-5812343-\$ or US-5854721-\$ or US-6183841-\$ or US-6353994-\$ or US-6442001-\$ or US-5796555-\$ or US-6230959-\$ or US-6061896-\$ or US-5820964-\$ or US-5879578-\$). did.                                 | USPAT                     | OR | OFF | 2003/05/10 12:24 |
| S27 | 0   | ((US-5364690-\$ or US-6035681-\$ or US-5191705-\$ or US-5185683-\$ or US-5495375-\$ or US-5579190-\$ or US-5812343-\$ or US-5854721-\$ or US-6183841-\$ or US-6353994-\$ or US-6442001-\$ or US-5796555-\$ or US-6230959-\$ or US-6061896-\$ or US-5820964-\$ or US-5879578-\$). did.) and (lubrica\$3 same polymer) | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/10 12:25 |
| S28 | 1   | ((lubrica\$4 same (vacuum adj deposition))) and (disk adj drive)) and (lubrica\$3 same polymer)  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/10 12:25 |
| S29 | 37  | ((lubrica\$4 same (vacuum adj deposition))) and (lubrica\$3 same polymer)  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/10 12:26 |
| S30 | 271 | (lubrica\$4 same (vacuum adj deposition))  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/10 12:29 |
| S31 | 11  | 29/603.03,603.06,603.07.ccls. and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:04 |
| S32 | 0   | ((actuator adj arm) and (suspension adj arm) and (swage adj boss)) and lubrica\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:05 |
| S33 | 0   | (swage adj boss) with lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:06 |
| S34 | 919 | ((swage adj boss) or boss) with lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:06 |
| S35 | 0   | (actuator adj arm) and (suspension adj arm) and ( (swage adj boss) or boss) with lubrica\$4)   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:19 |
| S36 | 12  | ( (swage adj boss) or boss) with lubrica\$4) and (disk adj drive)  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:35 |
| S37 | 0   | (actuator adj arm) same (suspension adj arm) same lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:20 |
| S38 | 23  | ((actuator adj arm) same (suspension adj arm)) and lubrica\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:28 |

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| S39 | 70   | ((swage adj boss) or boss) with lubrican\$4) and (boss with outside)                         | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:28 |
| S40 | 3    | ("3831265"   "5100714"   "5229899").PN.  | USPAT                     | OR | ON  | 2003/05/13 10:33 |
| S41 | 2317 | "184"/\$.ccls. and lubrican\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:54 |
| S42 | 5    | ("184"/\$.ccls. and lubrican\$4) and (disk adj drive)  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:35 |
| S43 | 0    | "184"/\$.ccls. and lubrican\$4 and (swage adj (boss or plate))                               | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:39 |
| S44 | 0    | "184"/\$.ccls. and lubrican\$4 and (swage adj boss)  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:39 |
| S45 | 160  | "184"/\$.ccls. and lubrican\$4 and boss  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:40 |
| S46 | 1    | "184"/\$.ccls. and lubrican\$4 and swage   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 10:40 |
| S47 | 75   | ("184"/\$.ccls. and lubrican\$4) and (joint with lubrican\$4)                                | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 11:10 |
| S48 | 1    | (US-5934412-\$).did.   | USPAT                     | OR | OFF | 2003/05/13 10:58 |
| S49 | 1    | ((US-5934412-\$).did.) and lubrican\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 11:06 |
| S50 | 3    | ("3831265"   "5100714"   "5229899").PN.  | USPAT                     | OR | ON  | 2003/05/13 11:06 |
| S51 | 2    | ((("3831265"   "5100714"   "5229899").PN.) and lubrican\$4                                   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 11:07 |
| S52 | 6    | ((("184"/\$.ccls. and lubrican\$4) and (joint with lubrican\$4)) and (film with lubrican\$4) | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 11:10 |
| S53 | 1    | (US-5879578-\$).did.   | USPAT                     | OR | OFF | 2003/05/13 13:15 |
| S54 | 0    | ((US-5879578-\$).did.) and spray\$3  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 13:17 |

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| S55      | 23   | (US-5854721-\$ or US-5812343-\$ or US-6230959-\$ or US-5796555-\$ or US-6035681-\$ or US-5879578-\$ or US-5820964-\$ or US-5364690-\$ or US-6525908-\$ or US-6228570-\$ or US-5618639-\$ or US-6339273-\$ or US-5934412-\$ or US-5211261-\$ or US-4987975-\$ or US-5191705-\$ or US-5185683-\$ or US-5495375-\$ or US-5579190-\$ or US-6061896-\$ or US-6353994-\$ or US-6183841-\$ or US-6442001-\$).did.                | USPAT                     | OR | OFF | 2003/05/13 13:17 |
| S56      | 4    | ((US-5854721-\$ or US-5812343-\$ or US-6230959-\$ or US-5796555-\$ or US-6035681-\$ or US-5879578-\$ or US-5820964-\$ or US-5364690-\$ or US-6525908-\$ or US-6228570-\$ or US-5618639-\$ or US-6339273-\$ or US-5934412-\$ or US-5211261-\$ or US-4987975-\$ or US-5191705-\$ or US-5185683-\$ or US-5495375-\$ or US-5579190-\$ or US-6061896-\$ or US-6353994-\$ or US-6183841-\$ or US-6442001-\$).did.) and spray\$3 | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 13:18 |
| S57      | 121  | lubrica\$4 with (vacuum adj deposition)   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 13:23 |
| S58      | 7    | lubrica\$4 with ((vacuum adj deposition) same spray\$3)   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2003/05/13 13:23 |
| S11<br>3 | 3616 | Crowder-Mark-S.in. or Rupp JR-Richard-E.in. or McCrandall-John.in.  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:54 |
| S11<br>4 | 3    | Crowder-Mark-S.in.  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:53 |
| S11<br>5 | 3613 | Rupp JR-Richard-E.in.   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:53 |
| S11<br>6 | 4    | Rupp-JR-Richard-E.in.   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:53 |
| S11<br>7 | 0    | McCrandall-John.in.   | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:54 |
| S11<br>8 | 7    | S114 or S116  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:54 |
| S11<br>9 | 1    | S118 and lubrican\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON  | 2005/06/06 13:58 |

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| S12<br>0 | 159   | 360/265.6,266.1,264.1.ccls.                                   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:55 |
| S12<br>1 | 489   | 184/6.26,14.ccls.   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:55 |
| S12<br>2 | 43    | swage adj boss  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:59 |
| S12<br>3 | 648   | S120 or S121  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:56 |
| S12<br>4 | 134   | S123 and lubrican\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:58 |
| S12<br>5 | 0     | S122 and S124   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:56 |
| S12<br>6 | 1     | S122 and lubrican\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:56 |
| S12<br>7 | 29    | S122 and (actuat\$3 adj arm)                                  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:14 |
| S12<br>8 | 1     | S127 and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:57 |
| S12<br>9 | 2     | S118 and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:58 |
| S13<br>0 | 321   | S123 and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:02 |
| S13<br>1 | 0     | S122 and S130   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 13:58 |
| S13<br>2 | 96254 | (swage adj plate) or (sawge adj boss) or (mount\$3 adj plate) | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:00 |
| S13<br>3 | 132   | (swage adj plate) or (sawge adj boss)                         | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:00 |
| S13<br>4 | 3     | ((swage adj plate) or (sawge adj boss)) same lubrica\$5       | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:00 |
| S13<br>5 | 306   | S121 and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 16:05 |

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| S13<br>6 | 0    | S133 and S135   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:02 |
| S13<br>7 | 42   | S121 and (lubrica\$4 with outer)  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:04 |
| S13<br>8 | 2    | S121 and (lubrica\$4 with wioth<br>boss with outer)   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:03 |
| S13<br>9 | 0    | S121 and (lubrica\$4 with boss with<br>outer)   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:03 |
| S14<br>0 | 2368 | actuat\$3 and (lubrica\$4 with outer)   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:04 |
| S14<br>1 | 4761 | actuat\$3 with lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:04 |
| S14<br>2 | 1640 | actuator with lubrica\$4  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:05 |
| S14<br>3 | 3    | actuator with lubrica\$4 with swage   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:06 |
| S14<br>4 | 3    | S132 and S143   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:08 |
| S14<br>5 | 11   | lubricat\$3 near ((outer or (out adj<br>side)) adj surface) with friction   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:08 |
| S14<br>6 | 147  | S141 and (actuat\$3 adj arm)  | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 14:14 |
| S14<br>7 | 27   | (US-4215480-\$ or US-4987975-\$ or<br>US-5185683-\$ or US-5191705-\$ or<br>US-5211261-\$ or US-5364690-\$ or<br>US-5495375-\$ or US-5579190-\$ or<br>US-5618639-\$ or US-5796555-\$ or<br>US-5812343-\$ or US-5820964-\$ or<br>US-5854721-\$ or US-5879578-\$ or<br>US-5934412-\$ or US-6035681-\$ or<br>US-6061896-\$ or US-6183841-\$ or<br>US-6228570-\$ or US-6230959-\$ or<br>US-6339273-\$ or US-6353994-\$ or<br>US-6442001-\$ or US-6525908-\$ or<br>US-4990028-\$ or US-6449120-\$).<br>did. or (US-6185075-\$).did. | USPAT                     | OR | ON | 2005/06/06 15:19 |
| S14<br>8 | 0    | S139 and lubrica\$4   | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 15:20 |

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| S14<br>9 | 15 | S147 and lubrica\$4                | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 16:02 |
| S15<br>0 | 37 | (actuator adj arm) with lubrica\$4 | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 16:08 |
| S15<br>1 | 3  | (actuator adj arm) near lubrica\$4 | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 16:02 |
| S15<br>2 | 3  | S151 and lubrica\$4                | USPAT;<br>JPO;<br>DERWENT | OR | ON | 2005/06/06 16:05 |